

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	43	703/8.ccls. and @pd>="20080501"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 09:32
L2	73	(280/5.5\$).ccls. and @pd>="20080501"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 09:36
L3	12	(stewart near platform) same spring	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/12/04 09:43



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"stewart platform" spring design

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### Design and control of a simplified **Stewart platform** for endoscopy

JM Wendlandt, SS Sastry - Decision and Control, 1994., Proceedings of the 33rd IEEE ..., 1994 - [ieeexplore.ieee.org](#)

... The **design** shares simi- larities with the **Stewart Platform** but has ... do not need the full motion of the **Stewart platform**. ... by rigid tubes and a **spring**-like device ...

Cited by 16 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

### Design and development of a **Stewart platform** based force-torque sensor

TA Dwarakanath, B Dasgupta, TS Mruthyunjaya - Mechatronics, 2001 - Elsevier

... analysed a similar structure and enumerated a few **design** criteria for the sensor structure. The concept of a passive **Stewart platform** with **spring** loaded legs ...

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### The **Stewart platform** manipulator: a review

B Dasgupta, TS Mruthyunjaya - Mechanism and Machine Theory, 2000 - Elsevier

... analysed a similar structure and enumerated a few **design** criteria for the sensor structure. The concept of a passive **Stewart platform** with **spring**-loaded legs ...

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### Dynamic Analysis and Control of a **Stewart Platform** Manipulator

G Lebre, K Liu, FL Lewis - JOURNAL OF ROBOTIC SYSTEMS, 1993 - [doi.wiley.com](#)

Page 1. Dynamic Analysis and Control of a **Stewart Platform** Manipulator ... In this article, we study the dynamic equations of the **Stewart platform** manipulator. ...

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### Modeling, simulation, and control of a hydraulic **Stewart platform**

D Li, SE Salcudean - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - [ieeexplore.ieee.org](#)

... For the **Stewart platform** considered here, the mass of the six legs is considerably ... coefficient (normally piston seal fric- tion), K is the **spring** constant of ...

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### Closed-form force sensing of a 6-axis force transducer based on the **Stewart platform**

CG Kang - Sensors & Actuators: A. Physical, 2001 - Elsevier

... Let the **spring** constant of **springs** mounted on the legs to be 87.5 N/mm, and the maximum ... The **design** parameters of the **Stewart platform** were selected in ...

Cited by 20 - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

### Genetic **design** of kinematically optimal fine tuning **Stewart platform** for large spherical radio

YX Su, BY Duan, CH Zheng - Mechatronics, 2001 - Elsevier

... where  $x_{Hi}$  stands for the  $i$ th gene of the  $\alpha$ spring  $P_H$ ;  $x_i$  represents the  $i$ th gene of the ... 5. Optimal **design** results of the @ne tuning **Stewart platform** ...

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### A six degree of freedom micromanipulator for ophthalmic surgery

KW Grace, JE Colgate, MR Glucksberg, JH Chun - Robotics and Automation, 1993. Proceedings., 1993 IEEE ..., 1993 - [ieeexplore.ieee.org](#)



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"parallel mechanism" spring design

1980

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### Static balancing of 3-DOF planar parallel mechanisms

T Laliberte, CM Gosselin, M Jean - Mechatronics, IEEE/ASME Transactions on, 1999 - [ieeexplore.ieee.org](#)

... of the Mechanisms For each type of planar **parallel mechanism** introduced in ... and for the mechanisms with **springs**—can be thought of as the **design** space, in ...

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### Geometric Analysis of Antagonistic Stiffness in Redundantly Actuated Parallel Mechanisms

RA Freeman - Journal of Robotic Systems, 1993 - [doi.wiley.com](#)

... disturbance rejection and nonlin- ear **spring design**. ... antagonism generated from preloaded passive **springs**. ... of a "fully **parallel**" **mechanism** consisting of R, N ...

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### Virtual model control of a bipedal walking robot - ► [mit.edu](#) [PDF]

J Pratt, P Dilworth, G Pratt - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - [ieeexplore.ieee.org](#)

... for each serial link of this **parallel mechanism** in the ... third constraint provides us with a **design** de- gree ... Figure 3: **Spring** Turkey, our bipedal walking robot. ...

Cited by 135 - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 16 versions](#)

### Kinematic Decoupling in Mechanisms and Application to a Passive Hand Controller **Design** -

► [mcgill.ca](#) [PDF]

I Sons - Journal of Robotic Systems, 1993 - [doi.wiley.com](#)

... a hand controller.' The cited **design** also proposes ... fitted with individual return **springs**, possibly dampers ... in general and a **parallel mechanism** in particular? ...

Cited by 17 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 5 versions](#)

### **Design**, fabrication, and evaluation of a new haptic device using a parallel mechanism

J Yoon, J Ryu - Mechatronics, IEEE/ASME Transactions on, 2001 - [ieeexplore.ieee.org](#)

... and Jacobian analyses. Section III presents **design** analyses for optimal **design** of the **parallel mechanism**. Rearrangeability of the ...

Cited by 24 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

### [PDF] ► **Design** and evaluation of a high-performance haptic interface

RE Ellis, OM Ismaeil, MG Lipsett - Robotica, 1996 - [cs.queensu.ca](#)

... possible to produce a fully **parallel mechanism** with six ... force measurements indicated by our **design** criteria were: ... a low-mass, damped **spring**; various resonances ...

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### Static balancing of spatial four-degree-of-freedom parallel mechanisms

J Wang, CM Gosselin - Mechanism and Machine Theory, 2000 - Elsevier

... of the results to the **design** of statically ... with counterweights, balancing with **springs** will be ... spatial four-degree-of-freedom **parallel mechanism** with prismatic ...

Cited by 49 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 5 versions](#)

### Series Elastic Actuators - ► [gatech.edu](#) [PDF]

GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - [doi.ieeeecs.org](#)

... mented Compliant Wrist Using a **Parallel Mechanism**", Japan/USA ... M., and Townsend, W.,